# Arizona Miner.

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E "QUARTZ ROCK" SALOON ated on Granite street, having been enlarged refitted, with the addition of a New Table, making O NEW TABLES OF BEST PATTERN,

HE BAR will be furnished with the best of uors. For proof, call and see DOC & JOE

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be undersigned having built a large stable and ral, with sheds, for the accommodation of the lic keeps constantly on hand Riding Horses, also riages and Carriage Horses, for sale or let on lonable terms. WM, H. HARDY, JAMES TUTTLES, Agent,

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lardware, Tin and Sheet Iron Ware, es and Miner's Tools, for sale by Wil. H. HARDY.

recent struggle of our country for self-preser- year may be increased in the swift-coming vation, that there should be but one war at a future to two or three hundred millions. time, and that no provocation short of utter dishoner however hard to be borne, should induce him to consent to war with any foreign power while the republic was in arms

made by him to me on the morning of the wealth of our country through its mines. last day of his life; and which he repeated Great doubt and sensitive distrust exist

and many have feared that their return home in such great numbers might persiyze inclusive policy in a matter of this grave importance, try, furnishing suddenly a greater supply of it has seemed to me that the precedent allabor than there will be demand for. I am ready established in an internal taxation law orado, Nevada, Idaho and Montano, the last

quantities when found. But here is over a million square miles, where in every direction, and at more or less points in each of the States and Territories in it, prospectors find the earth auriferous, and almost weekly new

Lake, where the Indians are most hostile, and things, the following: where prospecting is therefore the most danpublic mention has yet been made.

beautiful to the eye, known as Rush Valley, may be found. dishanded soldiers, whose time had expired, party with their richness.

Crossing the Sierras, we heard of new discoveries in an entirely new region, far from any of the old roads or mines, specimens from which we saw, sparkling with the golden

When in Washington Territory, we heard that the extreme northwestern portion of the Republic, back of Cape Flattery, by the side which we sailed on the Straits of Fuca, from Victoria to the ocean, ishabited now by hostife Indians alone, and comparitively unexplored, abounded in minerals, judging from specimens that had been obtained there.

Arizona, we all know, teems with the precious metals, which only wait for the subdu-ing of the murderous Apacies to be profita-bly developed.

THE UNITED STATES "THE TREASU-RY OF THE WORLD."

BY THE HEN. SCHUYLER COLPAX.

No one can real the words and writings of Abraham Lincoh, since he has passed away from mortal sight, without realizing, even more than whilehe lived, that he was gifted with a far-seeing sagacity as to the future beyond most of the statesmen of his time one of the world and our own times. Without while believed people of which where opening the Senatorial campaign of 1858, against Julge Douglas, that the Union could not permanently endure half slave and half free, which kept him in that canvass comestantly on the defensive, has been as striking is undeniable. Already, since the accidental strong the senator of gold and silver from the Pacific coast, or only wonder now is that every one did not of gold and silver from the Pacific coast, or only wonder now is that every one did not of gold and silver from the Pacific coast, or only wonder now is that every one did not of gold and silver from the Pacific coast, or only wonder now is that every one did not only a gradual report, thus discourses on this topic:

The public debt of the United States State tree, and along the conformation of your reaches at Large," for the information of your reaches at Large, the "finited States State that a Large," for the information of your reaches at Large, "for the information of your reaches at Large," for the information of your reaches at Large, "for the information of your reaches at Large," for the information of your reaches at Large, "for the information of your reaches at Large," for the information of your reaches at Large, "for the information of your reaches at Large," for the information of your reaches at Large, "for the information of your reaches at Large," for the information of your reaches at Large, "for the information of your reaches at Large," for the information of your reaches at Large, "for the information of your reaches at Large," for the information of your reaches at Large, "for the information of your reaches at Large," fo accept it as an infisputable fact. His unpop- such portion of them as is known to the offiular plan of compensated emancipation in cers of the mint, has exceeded five hundred 1862, and his warning to the Southern States and fifty millions of dollars; and there is no that, if they did not accept it, they would doubt, with such vast gold-bearing regions as regret it unavailingly in after years, is prob- Idaho and Montana abounding in it, in addiably remembered by many now who spurned tion to the older and newer discoveries, the it then. His inflexible resolution during the maximum shipment of seventy millions per

eign power while the republic was in arms and infiners becomes one of the most against the form of its own household, was important questions of the day, and I hope more than vindicated when we realized how to see, at the earliest possible day, a bureau emption right by virtue of this Act; no person of mining established in the Department of who is the proprietor of three hundred and twenty acres of land in any State or Territory rays of peace shone on the banners of the lines of the Senate in tives following: the example of the Senate in the lines of the United States, and no person who is the proprietor of the United States, and no person because the land of the United States, and no person because the land of the United States, and no person because the land of the United States, and no person because the land of the United States, and no person because the land of the United States, and no person because the land of the United States, and no person because the land of the United States, and no person because the land of the United States, and the land of the United States are land of the United States, and the land of the United States are land of the Un But there is not space, in a brief article affairs. And, as for years we have kept up a like this, to adduce numerous other instances coast survey in the interest of commerce, and akin to these. With no claim to inspiration found its exceeding value besides in time of or special precision, with a native intellect war, why should there not be a thorough not ruined by the culture of the college, he mineralogical survey in the interest of minseemed to have a foresight as to the future, ing, whose reports should direct intelligently when he cast its horoscope, as remarkable as the footsteps of the prospector, as the charts of the coast survey direct the course of our I have been led to these reflections by vessels on the main? The latter increases finding amongst many manuscripts, on my the wealth of our country through its comreturn from the Pacific slope, the remarks merce; and the other would increase the

"I have," said he, "very large ideas of the ful results, so often leading to poverty instead mineral wealth of our nation. I believe it of wealth, they should be exempt entirely practically inexhaustible. It abounds all ov- from contributions to the United States tax er our Western country, from the Rocky collector. It seems very difficult, too, to de-Mountains to the Pacific; and its develop-ment has scarcely commenced. During the as mines. For instance, the Gould & Curry war, when we were adding a couple of mil- mine, on the Comstock ledge, in the State of lions of dollars every day to our national Nevada, has taken out of its twelve hundred debt, I did not care about encouraging the foot claim millions upon millions of dollars in increase in the volume of our precious met-silver. The Hale & Norcross mine, on the als. We have the country to save first, same ledge, less than half a mile off, has spent But now that the rebellion is overthrown, four hundred thousand dollars, and gone and we know pretty nearly the amount of down seven hundred feet, without finding our debt, the more gold and silver we mine makes the payment of the debt so much the our party was there, that they had at last case. Now, I am going to encourage that struck a very profitable vein. While, a little

States scarcely any known deposits of the creases his income by doubling his grass crop. precious vetals. Some washing at Dahlone—Those, therefore, who, even to increase their ga, Georgia, and at Charlotte, North Caro—own means, extract gold from the barren the public lands within the Territory of Colling before similar mines were exhausted for measuring power, particularly that exerted long before similar mines were exhausted for measuring power, particularly that exerted long before similar mines were exhausted for measuring power, particularly that exerted long before similar mines were exhausted for measuring power, particularly that exerted long before similar mines were exhausted for measuring power, particularly that exerted long before similar mines were lere, and the long before similar mines were lere, and the long before similar mines were forced to embark in quartz. changed the scene. By acquisition and dis- and apparently worthless add to the wealth extinguished, shall constitute a new land dis- Here we had some of the most extensive and strong spring balances, or spring steelyards, covery, we have a realm of mineral wealth of his country, would seem to have a right trict, to be called the "Colorado District." richest placer diggings in the State, and this graduated to indicate the power required to unequaled in its area by any nation in the to be included in the same class. With our Congress passed an Act to extinguish the kind of mining being better understood, the raise any weight, within any rossonable limworld — perhaps by all others combined unequal agricultural resources making us the Indian title to lands in Utah, approved Feb-entire energy of our people was devoted to its, at the rate of 2) miles per hour. When From the Rocky Mountains to the Pacific, granary of the world, with this mineral rusry 23, 1865, providing "That the Presinearly fifteen hundred miles, from the line of British Columbia to Mexico, over one thousand miles, make us the "treasury of dent of the United States be and he is hereby British Columbia to Mexico, over one thousand miles, mountain and plain, ravine and as auxillaries to our prosperity, what a future sent of the Senate, to enter into treaties with

Will you have the kindness to send us gerous, I heard of claims in several localities, word by return mail if all the Farmers sent all such reservations shall be selected at points some of them quite accidentally stumbled on, to your office are regularly taken out by the as remote as may be practicable from the that promise rich returns, and of which no parties to whom they are addressed. Please present settlements in Utah Territory. give us information of those who may have Forty miles from Salt Lake, in a region removed or deceased, or where such persons

"I am always happy to give all information theologian, I confess my self unable to respond with that degree of accuracy that I would like. So far as my knowledge extends the rather than money."

The Territories of Nevada, Utah, Colorado, deceased persons of this pueblo may generally be found in the graveyards hereabouts."

MINING COLLEGE. Senator Stewart, of Nevada, has introduced a bill granting one million of acres of the public lands for the support of a mining college near Austin, Ne-vada. The scrip to be i sued for the amount ceeds put into United States stock, the inter-

SETTLED. The Nevada Supreme Gourt has re-affirmed its decision in the case of Milliken

guiahod, and which has been or shall have have been thus loaned, no branch of useful been surveyed prior thereto, and who shall industry has suffered by the investment. It inhabit and improve the same, and who has is undoubtedly true that if the wealth which or shall erect a dwelling thereon, shall be and has been invested in United States accurities is hereby authorized to enter with the Regis- could have been employed in agriculture, in ter of the land office for the district in which commerce, in mining, and manufactures, in such land may lie, by legal subdivisions, any number of acres, not exceeding one hundred and sixty, or a quarter section of land, to include the residence of such claimant, upon paying to the United States the minimum price of such land, subject, however, to the following fimitations and exceptions; no perproviding for a standing committee on mining quit or abandon his residence on his own land the military service, and at least seven hungifairs. And, as for years we have kept up a to residence on the public lands in the same dred thousand, for a good part of the time State or Territory, shall acquire any right of the war continued, were constantly under pre-suption under this Act.

before any person claiming the benefit of this extensive and battles so sanguinary as char-Act shall be allowed to enter such lands, he accertaed to country has still, since 156st, page or she shall make out h before the Register or part of the country has still, since 156st, page or she shall make out h before the Register or part of the country has still, since 156st, page or she shall make out h before the Register or part of the country has still, since 156st, page or she shall make out h before the Register or part of the country has still, since 156st, page or she shall make out h before the Register or part of the country has still, since 156st, page or she shall make out h before the Register or part of the country has still, since 156st, page or she shall make out h before the Register or part of the country has still, since 156st, page or she shall make out h before the Register or part of the country has still, since 156st, page or she shall make out h before the Register or part of the country has still and population. Receives of the land district, that he or she has never had the benefit of any right of pre- loyal States have advanced in material prosstarted for that the treatment to the White House alive. It was committed to writing the next morning, that his exact words might be preserved:

"I have," said be "very leave the said by the converse and be said by the said by the converse and be said by the said by the converse and be said by the said by the converse and be said by the said by the converse and be said by the said by the converse and be said by the said by the converse and be said by the converse and the said by the converse and the said by the converse and the said by the converse and to the ward march of the converse and to the ward march of the converse and to the matter of the will be said by the said by the said by the converse and the said by the said by the converse and the said by the said by the converse and the said by the said by the said by the converse and the said by the converse of the matter of the ward march of the converse of the said by the converse and the said by the converse of the converse of the said by the converse of the converse of the said by the converse of the converse soever, by which the title which he or she might acquire from the Government of the it is desirable it should be, with a judicious United States, should ensue, in whole or in system of taxation, it need not be oppressive. oath shall swear falsely in the premises, he or

AN ACT to create a Land District in the Terri-

in every possible way. We shall have hun-further on, a small twenty foot claim pays dian title shall have being extinguished, shall dreds of thousands of dishanded soldiers; steadily, and has for years. Without explicit committal as to a fixed "District of New Mexico." Approved May

that I shall promote their interests to the ore till it is found, mined, crushed, amal- include any territory which by treaty with

stipulations therein mentioned."

river, glitter with the shining ore. Not ever there is before the enfranchised regulation of the various tribes of Indians of Utah Territo-depth. Nearly every paying mine in Grass if raising 150 pounds out of a well, with a ywhere, of course, not always in remunerative whose citizenship we are so justly proud.

The various tribes of Indians of Utah Territo-depth. Nearly every paying mine in Grass if raising 150 pounds out of a well, with a ywhere, of course, not always in remunerative whose citizenship we are so justly proud.

The various tribes of Indians of Utah Territo-depth. Nearly every paying mine in Grass if raising 150 pounds out of a well, with a ywhere, of course, not always in remunerative whose citizenship we are so justly proud. to said lugane and beneficial to the Govern and in most cases it has only been after a the rate of two and a half miles per hour, and INFORMATION GIVEN.—A postmaster in ment of the United States; Provided, That number of failures that a mine has been made so for other weights.

Such treaties shall provide for the absolute to pay. Experience has taught miners that The velocity at which a toam moves is to some town in California gives the following information in a communication to the Bulletin:

"I have received a printed circular from dians, of their possessory right to all the deep working, and when our quartz ledges raised, or the load to be drawn. If the horse the proprietors of the California Farmer, pub- agricultural and mineral lands in said Terri- are thoroughly prospected by men who un-Between the Rocky Mountains and Salt lished in your city, containing, among other tory, except such agricultural lands as by derstand their business, there is no more risk hour, while raising 150 pounds out of a well

SEC. 2. And be it further enacted, That in agreeing with said Indians upon the amounts to be paid them under the provisions of the treaties to be negotiated in pursuance of this have discovered, and without capital were in my power, but when I am asked where Act, care shall be taken to obtain from the opening, mines which impressed all of our 'deceased' persons may be found, not being a Indians, to the greatest extent, their consent to receive for such payments agricultural implements, stock and other useful articles,

> and part of Kansas were obtained from Mexico, by the "Treaty of Peace, Friendship, Limits and Settlement," dated at Guadalupe Hidalgo, February 2, 1848.

A NEW RAILHOAD .- Senator Lane, of Kanvada. The scrip to be i sued for the amount which is to be sold by the State, and the proceeds put into United States stock, the interest on which shall be used for the expenses of the school.

A NEW RATEROLD.—Senator Labe, is Rail and granting lands for the construction of a railroad from the present southern terminus of the Leavenworth and Lawrence and Fort Gibson road to the northern boundary of Texas, in the direction of Rosecrans, John G. Parker, Gordon Granger, Collection of Rosecrans, John G. Parker, Gordon Granger, Rosecrans, John G. Parker, Grant G. Par Galveston.

Good Inga .-- Mr. Nye, of Nevada, offered

opening farms and the better improvement of those already under cultivation, in building railroads and ships, in working the mines, and in increasing the variety and amount of our manufactures, the nation would have been far in advance of what it now is in material prosperity. But it is also true that, notwithstanding the large investments by the people of the United States in the securities of their Government; notwithstanding, also, more than two millions of men, in the Northern States, were, for longer or shorter periods, in Sec. 13. And be it further enacted, That waste of life consequent upon operations so Act shall be allowed to enter such lands, he acterized this memorable struggle, the larger emption under this Act; that he or she is not the owner of three hundred and twenty acres been made upon them; and now that the He can be used by others only in the interest. of land in any State or Territory of the Uni- war is closed, the Union is no longer in peril, The debt is large, but if kept at home, as

renders Agid national economy almost impracticable. It is, in a word, a national burden, and the work of removing it-no matter how desirable it may be for individual inrestment-should not be lang postponed.

going to try to attract them to the hidden might be wisely followed. Wood is not organized Territory, contains the following heirs unennumbered estates, so should it be but regard it as indicating loosely about the wealth of our mountain ranges, where there taxed as it stands in the forest, but after its provisions, word for word: "Provided, That the ambition of the people of the United power which one horse would exert. It is, is room enough for all. Immigration, which manufacture into a wagon, etc., and it is thus nothing in this Act contained shall be con- States to relieve their descendants of the na- however, when used in the sense under coneven the war has not stopped, will land upon ready for use. Wood is not taxed on the our shores hundreds of thousands more per sheep's back, but when manufactured into year, from overcrowded Europe. I intend to cloth, and thus prepared for consumption, point them to the gold and silver that waits. Corn is not taxed in the field, but it is when for them in the west. Tell the miners for manufactured into a wagon, etc., and it is thus horizing in the act contained and pears the region of the intended on the struct to impair the rights of person or propertional mortgage. We need not be anxious sideration as definite as possible, and means the final mortgage. We need not be anxious sideration as definite as possible, and means that future generations shall share the bust that future generations shall share the bust that future generations of the first fitting and means to the final mortgage. We need not be anxious sideration as definite as possible, and means to the fitting mortgage. We need not be anxious sideration as definite as possible, and means to the fitting mortgage. We need not be anxious sideration as definite as possible, and mortgage. We need not be anxious sideration as definite as possible, and means to the fitting mortgage. We need not be anxious sideration as definite as possible, and mortgage. We need not be anxious sideration as definite as possible, and pears the fitting mortgage. We need not be anxious sideration as definite as possible, and pears the fitting mortgage. We need not be anxious sideration as definite as possible, and pears the fitting mortgage. We need not be anxious sideration as definite as possible, and pears the fitting mortgage. We need not be anxious sideration as definite as possible, and pears the fitting mortgage. We need not be anxious sideration as definite as possible, and pears the fitting mortgage. We need not be anxious sideration as definite as possible, and pears the fitting mortgage.

> mines which have been opened, is this: In Congress passed an Act to extinguish the kind of mining being better understood, the raise any weight, within any reasonable lim said treaties may be set apart for reservations in quartz mining than there is in any other he exerts more than one horse power. for said Indians. And, Provided further, That kind of business.

RAILWAY IN LOS ANDRLES COUNTY .- Mr. Banning has introduced, in the California Legislature, three bills authorizing the boards of Sapervisors of San Bernardino, Los Angeles county, and the city of Les Angeles, to subscribe, in all, four hundred thousand dollars, to be expended for the construction of a railway from Los Angeles city to the town of Wilmington in the same county. Some discussion ensued over the propriety of printing the bills. Mr. Banning, in urging said motion, stated that his constituency extended over a large section of the country, and he was anxious that they should be "posted' on all measures affecting their interests. If they were indisposed to have this railway built, he did not wish the bills introduced by

George Sykes, David S. Stanly, Alfred Pleasanton, Andrew J. Smith, Grenville M. Dodge, John Gibbon, Peter J. Osterhaus, Joseph A. Mower, George Crook, Godfrey Weitzel, Wilalready so extensively worled, and so widely iffic Contract Law, thus settling the question which was adopted, that a room be set quart liam B. Hazen, Wesley Merritt, Charles liam B. Hazen, Wesley Merritt, Charles

A PHRENOLOGICAL VIEW OF PRESI-DENT JOHNSON

In a recent number of the Phrenological Journal we find this analysis of the character of "Andy Johnson;"

"Phrenologically considered, he has a large brain, well supported by an excellent constitution. The brain is specially heavy in the base, including large perceptive organs; broad between the ear, in Destructiveness, Combat, iveness and Alimentiveness; large in the lower back-head, including the social affections; and were it not that Johnson has also a full top-head, including Conscientiousness, Veneration and Benevolence, he would indeed be imperious or despotic. As it is, he passesses a very strong will, the greatest forsitude and lmost unlimited powers of endurance, with courage and force to match. Cautiousness is not over large; Secretiveness is full, and the intellectual faculties are prominent and active. Self Esteem is full, and considerable pride of haracter will be manifested. Owing to large Approbativeness, he will never be haughty, proud or domineering, but will be modests just, respectful and judicious, but alwaystrong and earnest. That he will freely con-fer with his advisors, getting the best judg, ment from all sources, there can be no doubt; and that he will be master of the situation, be governed by what he conceives to be right and proper, holding all men to the most rigid accountability to principles, there can be no question. There will be no child's play with such a man. He will be calm, self-regulated and determined. His organization will incline him to take a comprehensive view of questions, and to consider the interests of the people. There is nothing aristocratic in his composition, but he is eminently democratic in the best sense of that term, granting the same rights to all men that he claims for himself. There is not the slightest touch or pretension to royalty, or the feeling that "I the sycophant to lords or crowned heads. His of the people. He is bens olent and even hopeful, sunny expression which illumin the face of Lincoln, but is more sedate and part, to the benefit of any person except him-self or herself; and if any person taking such to the holders of the securities, it is still a character of the man. Lincoln's head was outh shall swear falsely in the premium has a market and the securities, it is still a na i mal debt, and an incombrance upon the broad at this point. Liurola's was high in she shall be subject to all the panes and pennational estate. Neither its advantages nor alties of forgery, and shall forfest the paney its burdens are or can be shared or borne. alties of forgery, and shall forfeit the papers which he or sie may have paid for the land and all right and title to the same. Approval September 4, 1841.

September 4, 1841.

Les burdens are or can be shared or borne equally by the people. Its influences are an organs, but they do not exert a very marked influence. Executiveness is the leading trait of his character, and be his Presidential or the content of the content in these or can be shared or borne devotion; Johnson is not delicient in these or can be shared or borne devotion; Johnson is not delicient in these or can be shared or borne devotion; Johnson is not delicient in these or can be shared or borne devotion; Johnson is not delicient in these or can be shared or borne devotion; Johnson is not delicient in these or can be shared or borne devotion; Johnson is not delicient in these or can be shared or borne devotion; Johnson is not delicient in these or can be shared or borne devotion; Johnson is not delicient in these or can be shared or borne devotion; Johnson is not delicient in these or can be shared or borne devotion; Johnson is not devotion; Jo It must be distasteful to the people because it fills the country with informers and tax-

### WHAT IS "ONE-HORSE" POWER!

The use of the term "horse-power" is very common, yet few, except good mechanics and As all true men desire to leave to their engineers, attach a definite meaning to it

a pully one foot in dismeter, placed over deep well, travelling at the rate of about two. the utmost of my ability, because their prosperity is the prosperity of the nation. And
we shall prove, is a very few years, that we
are indeed the treasury of the world."

Include any territory which by treaty with

Quartz Mining.—Experience of the past
into hars, and then, as it is ready to be added
within the territorial two years, says the Nevada Transcript, has
minute any territory which
any Indian tribe is not, without their conperity is the prosperity of the nation. And
into hars, and then, as it is ready to be added
we shall prove, is a very few years, that we
are indeed the treasury of the world."

Include any territory which
any Indian tribe is not, without their coninto hars, and then, as it is ready to be added
to the usualth of the country, to tax it as
bullion, would assimilate this tax to the othtory."

Include any territory which
any Indian tribe is not, without their coninto hard, traveling at the rate of about swell,
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any Indian tribe is not, without their coninto hard, traveling at the rate of about swell
any Indian tribe is not, without swell
any Indian tribe is tered it, with an unusually emphatic tone, itless prospecting and unsuccessful mining; office in Colorado Territory, approved June as any to be found in the State. A few years amount of continuous power it is fair to depend as any to be found in the State. A few years amount of continuous power it is fair to depend as any to be found in the State. A few years amount of continuous power it is fair to depend as any to be found in the State. A few years amount of continuous power it is fair to depend as any to be found in the State. A few years amount of continuous power it is fair to depend as any to be found in the State. A few years amount of continuous power it is fair to depend as any to be found in the State. A few years amount of continuous power it is fair to depend as any to be found in the State. A few years amount of continuous power it is fair to depend as any to be found in the State. A few years amount of continuous power it is fair to depend as any to be found in the State. A few years amount of continuous power it is fair to depend as any to be found in the State. A few years amount of continuous power is fair. The first of the interviently are as valuable as any to be found in the State. A few years amount of continuous power is fair. The first of the interviently are as valuable as any to be found in the State. A few years amount of continuous power is fair. The first of the interviently are as valuable as any to be found in the State. A few years amount of continuous power is fair. The first of the interviently are as valuable as any to be found in the State. A few years as any to be found in the State. A few years as any to be found in the State. A few years as any to be found in the State. A few years as any to be found in the State. A few years as any to be found in the State. A few years as any to be found in the State. A few years as any to be found in the State. A few years are any to be found in the State. A few years are any to be found in the State. A few years are any to be found in th A wise philosopher remarked that "he dian title has been or shall be extinguished, of Grass Valley township, and for several fact it was moved per minute (220), the proey that has recently ended. Twenty years who makes two blades of grass grow where ago—how short that space of time seems?— but one grew before, is a public benefactor," emption Act of the 4th of September, 1841, in this locality. The reason why Grass Value and under the conditions, restrictions and ley is in advance of Nevada in the rich part of the present of the united And this is true, although, of course, he in-The dynamometer is an instrument made

of raising 150 pounds out of a well, with a

travels faster than two and a half miles an walks slower than this, he does not exert a force equal to one horse power. In ascertaining the draught of a plotted

reaper and mower, by driving faster than to and a half miles per hour, the dynamous to would indicate more than the correct drang, and by driving slower, the draught we is appear to be less than it really is. In gesting he draught of machines a team should his ways move at the rate of two and a baif m les per hour, or 200 feet per minute, which is oniversally accepted rate with reference which dynamometers are graduated, and easy one to which to approximate in Island with almost any kind of ram.

Many people have supposed that pounds—two horse power—represented the same force that a ream would exert when dragging 300 pounds along on the ground. A horse can haul (a) pounds on the hard ground, with case; but he could not draw hard enough on the dynamometer to mark more than 250 OUT OF SERVICE. The following are the or 300 pounds, except for a few minutes. The power of a man is estimated at one-fifth of a horse-power.

> UTAN THIS YEAR .- The Union Vellette says that the mineral resources of the Territory are numerous and rich, and that the year